BOSCH

Invented for life

VIP XD Single/Quad-stream Decoder

▸ **Quad-view option**

▸ **DVD-quality 25/30 ips at 4CIF**

▸ **Ultra-compact size**

▸ **Composite video or VGA output**

▸ **Alarm inputs and relay output**

▸ **Audio option**

The VIP XD displays DVD-like quality H.264, MPEG-4 and MPEG-2 encoded video at up to 25/30 images per second from PAL or NTSC sources over IP networks.

Establish the video connections automatically with the encoder, decoder, or Bosch's comprehensive video management system. Set up the VIP XD to display video in single-view or quad-view mode. It is capable of decoding up to four MPEG-4 video streams at the same time. Control the viewing mode remotely via a management system like VIDOS. Alternatively, the VIP XD can drive a VGA display directly, thus is ideally suited for applications like flat-screen monitor walls.

The VIP XD is available as an audio model, providing one-channel bidirectional audio communication in parallel to video.

Besides the standard line level interface, it has integrated amplifiers to connect directly to a microphone and speaker.

Ultra-compact in size, the VIP XD is perfect for any application that depends on space-saving solutions.

Functions

Access Security

The VIP XD decoders offer various security levels for accessing the network, the unit, and the data channels. As well as password protection with two levels, they support 802.1x authentication using a RADIUS server for identification. You can secure Web browser access by HTTPS using a SSL certificate that is stored in the unit. For total data protection, each communication channel—video, audio, or serial I/O—can be independently AES encrypted with 128-bit keys, once the Encryption Site License has been applied.

High Performance

Transmit IP video to a high-performance VIP XD video decoder and present it with ultimate clarity on an analog CCTV or on a large, flat-screen VGA monitor. VIP XD can handle up to four MPEG-4 video streams with full resolution and frame rate and display it in quad-view. When in single-view it can display either H.264, MPEG-4 or MPEG-2.

Easy Upgrade

Remotely upgrade the VIP XD decoders whenever new firmware becomes available. This ensures up-to-date products, thus protecting investment with little effort.

Certifications and Approvals

Approvals

Region	Certification	
Europe	CE	VIP X
USA	UL	VIP X
		UL online certifications directory (link)

Safety

Region	Number
	IEC 60950

Electromagnetic Compatibility

Region	Number
EU	EN55103-1 Video and audio equipment
	EN55103-2 Video and audio equipment
	EN50130-4 Alarm systems
	EN55022 ITE
	EN55024 ITE
	EN61000-3-2
	EN61000-3-3
US	FCC 47 CFR Chapter 1 Part 15

Installation/Configuration Notes
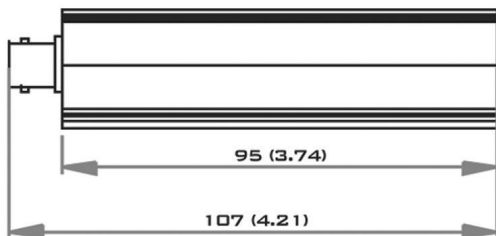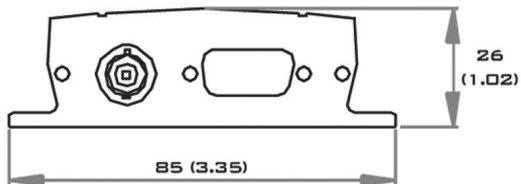
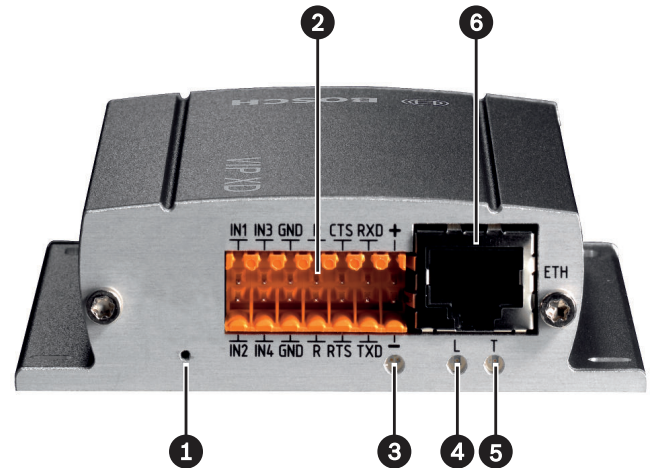*Dimensions in mm (in)*

Front Connectors and Indicators

Non-audio model

1	Video Out	2	VGA

Audio model

1	Video Out	4	Line Out
2	Line In	5	VGA
3	Microphone in, speaker out		

Rear Connectors and Indicators

All models

1	Reset: factory default	4	LED Link
2	Alarm in, relay out, power, COM (RS-232/422/485)	5	LED Traffic
3	LED Power	6	10/100 Base-T Fast Ethernet

Rack Mounting Kit (Optional)
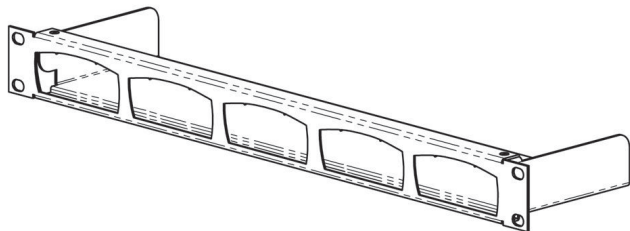
Parts Included

Quantity	Component
1	VIP XD single/quad-stream decoder, or
	VIP XDA single/quad-stream decoder with audio
1	International plug-in power supply
1	RS-232 null modem cable
1	Quick Installation Guide
1	CD-ROM with software and documentation

Technical Specifications

Electrical

Power supply	VIP-X-PS included in the box
Input voltage	12 to 24 VDC
Power consumption	Approx. 7 VA

Input/output

Video		1 x output
•	connector	BNC
•	impedance	75 ohm
•	signal	Analog composite, 1 Vpp, NTSC or PAL
VGA		1 x output
•	connector	15-pin Sub-D
•	signal	1 Vpp, RGB analog
Audio (audio version only)		1 x mono line in, 1 x mono line out, 1 x microphone input, 1 x speaker output
•	connector	2 x 3.5 mm stereo jack, 1 x CombiCon
•	signal line in	9 kohm typical, 5.5 Vpp max
•	signal line out	16 ohm min, 3.0 Vpp max
•	signal microphone	2 kohm typical, 2.8 Vpp max at -20 dB, 2.3 Vpp typical
•	signal speaker	4 ohm min, 6 Vpp max, 1 W RMS

Input/output

Alarm		4 x input
•	connector	Clamp (non-isolated closing contact)
•	activation resistance	10 ohm max
Relay		1 x output
•	connector	Clamp
•	signal	30 Vpp (SELV), 2 A
COM port		Clamp, RS-232/422/485

Video

Standards		H.264 BP+ (ISO/IEC 14496-10) MPEG-4, MPEG-2
Data rates		Up to 6 Mbps per stream
Resolution		Horizontal x vertical PAL/NTSC
•	4CIF	704 x 576/480
•	2CIF	704 x 288/240
•	2/3 D1	464 x 576/480
•	1/2 D1	352 x 576/480
•	CIF	352 x 288/240
•	QCIF	176 x 144/120
GOP structure		I, IP
Overall IP delay		120 ms (MPEG-4)

Audio (audio version only)

Standard	G.711; 300 Hz to 3.4 kHz
Data rate	80 kbps at 8 kHz sampling rate

Network

Ethernet	10/100 Base-T, auto-sensing, half/full duplex, RJ45
Protocols	RTP, Telnet, UDP, TCP, IP, HTTP, HTTPS, FTP, DHCP, IGMP V2/V3, ICMP, ARP, SMTP, SNTP, SNMP (V1, MIB-II), 802.1x
Encryption	TLS 1.0, SSL, AES (optional)

Control

Software update	Flash ROM, remote programmable
Configuration	Configuration Manager or Web browser

Mechanical

Dimensions (H x W x D)	26 x 85 x 107 mm (1.02 x 3.35 x 4.21 in)
Weight	Approx. 0.3 kg (0.66 lb)

Environmental

Operating temperature	0 °C to +50 °C (+32 °F to +122 °F) ambient temperature
Relative humidity	0 to 95% atmospheric humidity, non-condensing
Thermal value	24 BTU/h max

Ordering Information

VIP-XD H.264/MPEG-4/MPEG-2 single/quad-stream decoder, serial I/O, alarm in, relay	VIP-XD
VIP-XDA H.264/MPEG-4/MPEG-2 single/quad-stream decoder, audio, serial I/O, alarm in, relay	VIP-XDA

Accessories

VIPRMK1HU VIP X/10/1000 rack-mount kit for 5 units (1HU)	VIPRMK1HU
VIP-X-PS Power supply	VIP-X-PS
PSR 1200 Rack-mount Power Supply Rack-mount power supply 1200 W	VIP-PSR-1200

Software Options

IP Matrix BVIP IP Matrix license for decoder	MVC-FIPM
SFT-VASA Hybrid IP - Analog/Matrix Video over IP Integration Software	SFT-VASA
MVC-FENC-AES BVIP AES 128 Bit Encryption BVIP AES 128-bit encryption site license. This license is required only once per installation. It enables encrypted communication between BVIP encoders, decoders and management stations.	MVC-FENC-AES